



# 10/100Mbps Smart Switch

## 16-Port 10/100Mbps Smart Switch

(VLAN, Trunking & Fiber Option)

### ES-3116RE+

### User's Manual

**ΣDiMAX**

# FCC Class B Certification

This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions:

- 1.This device may not cause harmful interference, and
- 2.This device must accept any interference received, including interference that may cause undesired operation.

**Warning!** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from the one which the receiver is connected to.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

# 1.Introduction

Congratulations on your purchase of this 16-port Smart Fast Ethernet Switch. This high performance switch provides sixteen fast ethernet ports to segment network traffics, extend fast ethernet connection distance, and convert data packets between different transmission speeds.

This Switch provides sixteen shielded RJ-45 ports. These are 10BaseT/100BaseTX Auto-negotiation ports.

This switch utilize stored-and-forward switching architecture that filters and forwards data after the complete data packet is received and examined to be free of errors. With one set of status LEDs for each individual port, the switch operation status can be easily monitored.

It's rackmount design that can be mounted on the industrial standard 19 inches rack in the enterprise wiring center.

This switch supports both full & half duplex on all ports which are able to provide 200Mbps of bandwidth to the connected devices, with auto-negotiation providing smooth migration from Ethernet to Fast Ethernet. It also supports backpressure and IEEE 802.3x advanced flow control capability that can reduce congestion and prevent packet loss.

And it offers advance features :

- VLAN : Port based VLAN allows you to set virtual LANs within your network
- Trunking : Reduce the bottleneck between swtiches
- Fiber Option : Provide one fiber module option

# 2.Features & Specifications

## (1) Features

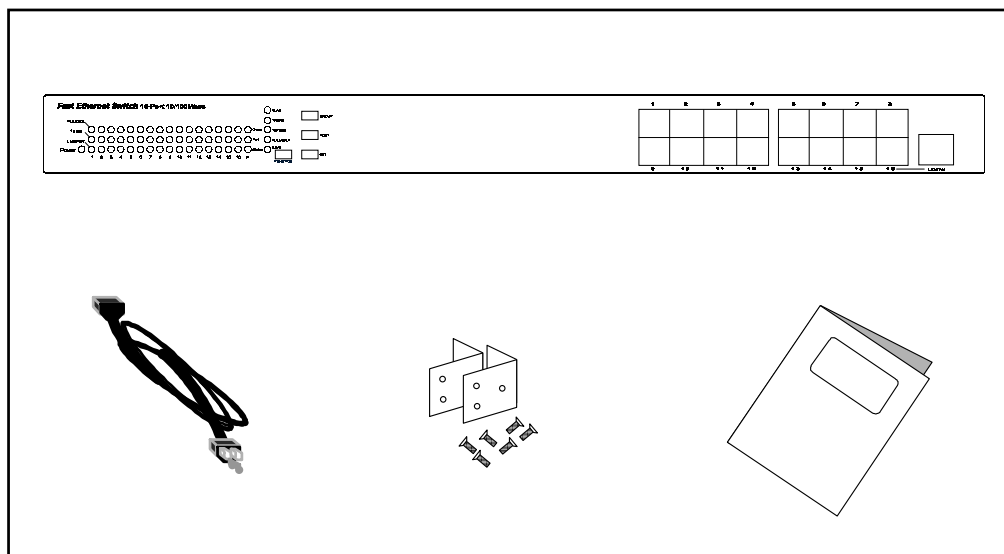
- Comply with IEEE 802.3 10BaseT and IEEE 802.3u 100BaseTX Standards.
- Provide 16 UTP ports with 10/100Mbps Auto-Negotiation.
- Provide one uplink port which can connect to another hub/switch using a normal UTP cable
- One 100Mbps Fiber-SC/ST module option (Support Full/Half Duplex)
- Support IEEE 802.3x compliant full-duplex flow control, half-duplex flow control
- Full wire speed on every port.
- Support Port-based VLAN
- Support 2 Trunking Group
- Standard 19” rackmount size.
- Support store-and-forward switching architecture.

## **(2) Specifications**

- Standards : IEEE 802.3 10BaseT and IEEE 802.3u  
100BaseTX
- 10/100Mbps Ports : RJ-45 x 16
- Uplink Port : RJ-45 x 1
- 100Mbps Fiber-SC/ST Port : Optional
- Switching Architecture : Store and Forward
- MAC Address : 8K
- Buffer : 512Kbyte
- Flow Control : Back pressure and IEEE 802.3x
- VLAN : Port-based VLAN up to 16 groups
- Trunking : 2 groups
- N-Way Auto-Negotiation : on all ports
- Full-Duplex / Half-Duplex : on all ports
- Switch LED : Power
- Port LEDs : Link/Activity, 100M, Collision/Full-Duplex
- Power : 100~240V AC, full range internal power
- Emission : FCC Class B , CE Mark , C-tick

# 3.Package Contents

- One Fast Ethernet Switch
- One Power Cord
- One User's manual
- Rackmount accessories



# 4.Physical Description

## (1) Panel

### ■ Front View



### ■ Rear View

